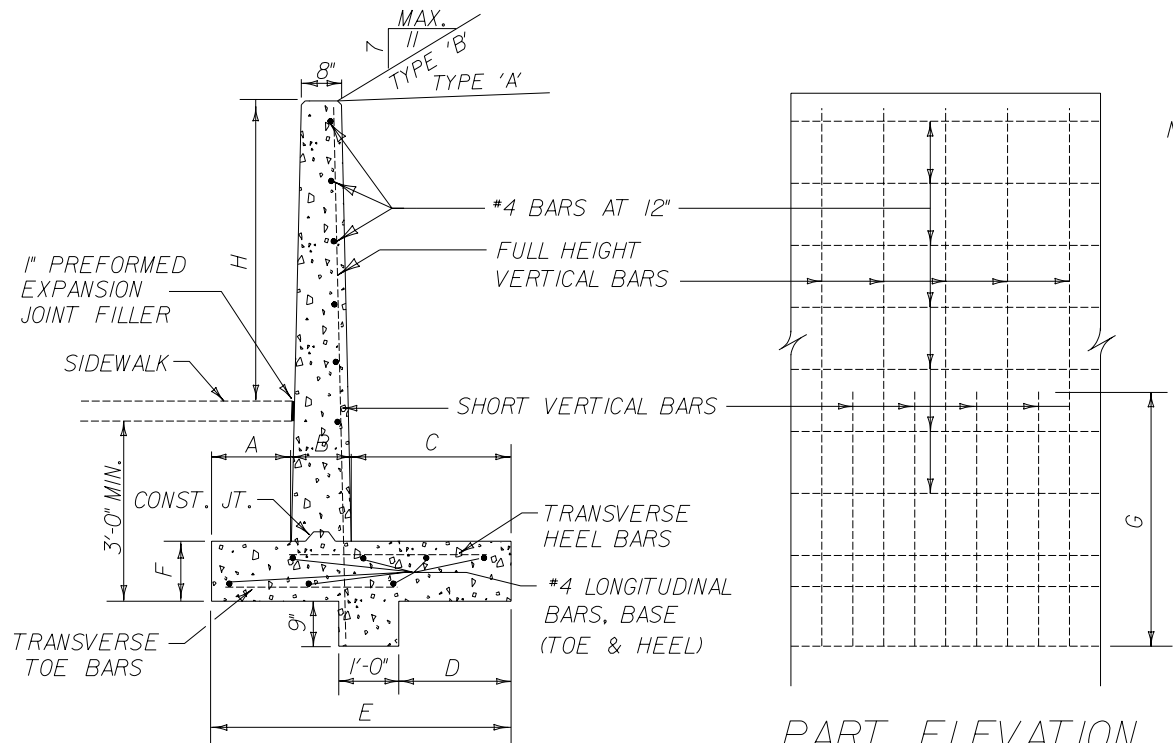
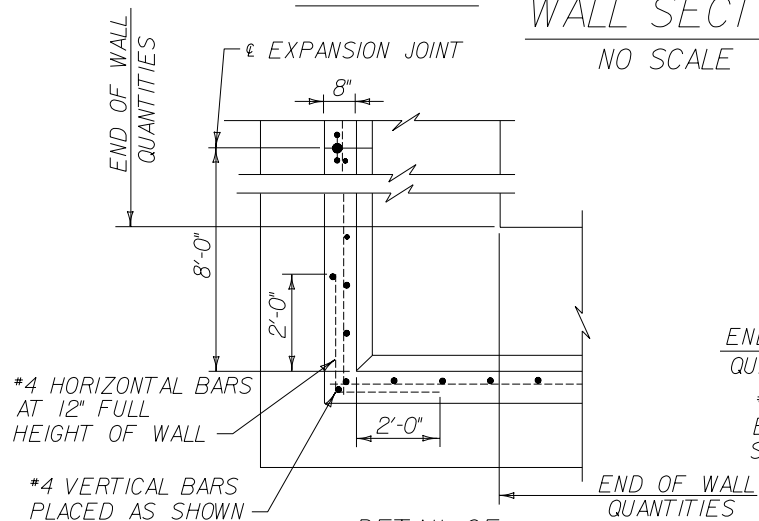


TYPE 'A' - LEVEL FILL BEHIND WALL (NO SURCHARGE)													
HEIGHT OF WALL (ft.)	DIMENSIONS							REINFORCING BARS					
	A	B	C	D	E	F	G	FULL HEIGHT VERTICAL BARS (ALT. W/SHORT BARS)	SHORT VERTICAL BARS (ALT. W/ FULL HEIGHT BARS)	TRANSVERSE BARS,BASE		LONGITUDINAL BARS,BASE (*4)	
										TOE BARS	HEEL BARS	NO. OF TOE BARS	NO. OF HEEL BARS
3	9"	1'-0"	1'-0"	10"	2'-9"	1'-0"	3'-6"	#3 at 24"	#3 at 24"	#3 at 12"	#3 at 12"	2	2
4	10"	1'-0"	1'-2"	1'-0"	3'-0"	1'-0"	3'-6"	#4 at 24"	#4 at 24"	#3 at 12"	#3 at 12"	2	2
5	1'-0"	1'-0"	1'-10"	1'-1"	3'-10"	1'-0"	3'-9"	#4 at 24"	#4 at 24"	#3 at 12"	#3 at 12"	2	3
6	1'-1"	1'-1"	2'-1"	1'-4"	4'-3"	1'-1"	4'-3"	#4 at 24"	#4 at 24"	#3 at 12"	#3 at 12"	2	3
7	1'-2"	1'-1"	2'-9"	2'-0"	5'-0"	1'-1"	4'-9"	#4 at 17"	#4 at 17"	#3 at 12"	#4 at 11½"	3	3
TYPE 'B' - SURCHARGED FILL BEHIND WALL (MAX. SURCHARGE SLOPE 11:7)													
3	10"	1'-0"	1'-6"	1'-2"	3'-4"	1'-0"	3'-9"	#3 at 14"	#3 at 14"	#3 at 12"	#3 at 12"	2	3
4	1'-0"	1'-0"	1'-10"	1'-6"	3'-10"	1'-0"	3'-10"	#4 at 16"	#4 at 16"	#3 at 12"	#3 at 12"	2	3
5	1'-4"	1'-0"	2'-8"	1'-11"	5'-0"	1'-0"	4'-0"	#4 at 14"	#4 at 14"	#3 at 9½"	#3 at 11"	2	4
6	1'-6"	1'-1½"	3'-7½"	2'-10½"	6'-3"	1'-1½"	4'-6"	#5 at 17"	#5 at 17"	#3 at 8"	#3 at 8"	2	4
7	1'-8"	1'-3"	4'-1"	3'-4"	7'-0"	1'-3"	5'-0"	#5 at 13"	#5 at 13"	#4 at 12"	#4 at 10"	3	5

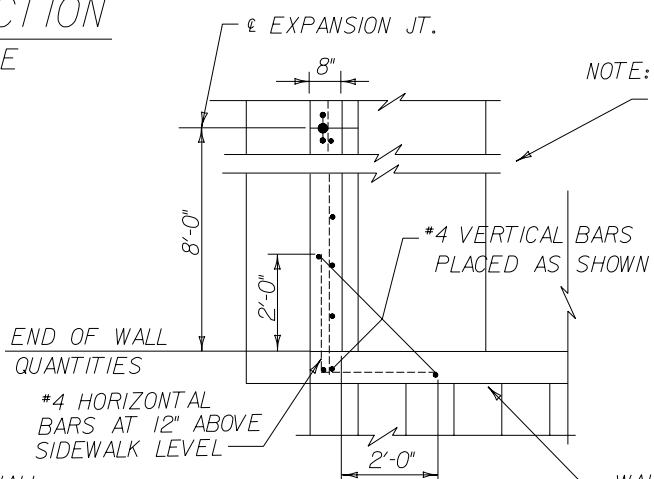


SECTION

WALL SECTION
NO SCALE



DETAIL OF
WALL CORNER
NO SCALE

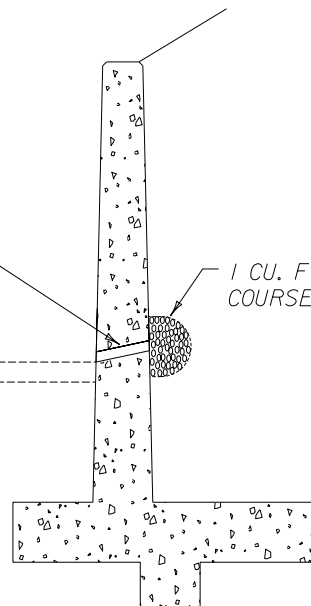


DETAIL OF
ENTRANCE CORNER
NO SCALE

NOTE: WEEP HOLE SHALL
BE PLACED IN ALL
RETAINING WALLS

2" PIPE AT
10'-0" CENTERS

SIDEWALK

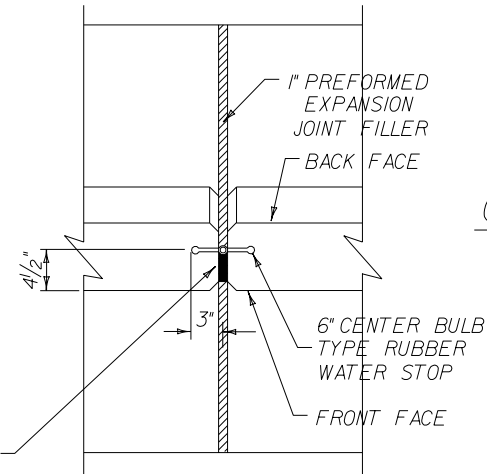


SECTION AT
WEEP HOLE
NO SCALE

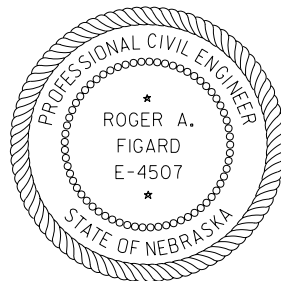
NOTE: RETAINING WALL AND
WALL FOR STEPS TO BE
POURED INTEGRALLY.

NOTE: WATER STOP TO EXTEND
FROM TOP OF FOOTING TO
3" BELOW TOP OF WALL
ALL LONGITUDINAL STEEL
IN WALL SHALL BE CUT
AT EXPANSION JOINTS.

1" PREFORMED
JOINT FILLER
EXPANSION



DETAIL OF
EXPANSION JOINT
NO SCALE



QUANTITIES PER LINEAL FOOT OF WALL							
TYPE 'A' (LEVEL SURFACE)							
HEIGHT OF WALL (FEET)	CONCRETE (CU. YD.)	REINFORCING STEEL (LBS.)	DAMP- PROOFING SQ. YD.)	ADDITIONAL CONCRETE		ADDITIONAL REINF. STEEL	
				ONE WALL CORNER (CU. YD.)	ONE ENTRANCE CORNER (CU. YD.)	ONE WALL CORNER (LBS.)	ONE ENTRANCE CORNER (LBS.)
3	.284	9.38	.572	0.8	0.13	70	26
4	.324	11.9	.669	1.1	0.13	86	35
5	.386	14.4	.779	1.7	0.15	127	42
6	.457	15.7	.891	2.2	0.17	147	48
7	.516	21.3	1.002	3.1	—	221	—
TYPE 'B' WALL (SURCHARGED)							
3	.305	11.7	.572	1.1	0.14	93	27
4	.355	14.9	.669	1.5	0.15	121	35
5	.428	18.9	.779	2.5	0.18	185	42
6	.549	24.4	.891	4.1	.023	293	53
7	.663	33.6	1.002	5.5	—	419	—

Notes : All exposed edges of concrete shall be chamfered ¾"

Minimum covering, measured from face of the concrete to the surface of any reinforcing bars shall be 3".

Expansion joints shall be placed in walls at not more than 50'-0" intervals or at locations to be determined by the engineer, and at 8'-0" from all wall and entrance corners. Longitudinal bars shall be cut at expansion joints.

Dummy joints shall be placed in the face of walls at locations to be determined by the engineer.

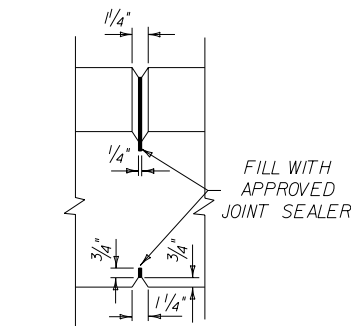
A control joint shall be placed midway between expansion joints or midway between expansion joint and the end of the retaining wall, except control joints may be deleted where the distance between expansion joints or the distance between expansion joint and end of retaining wall is 30'-0" or less. Field cut alternate longitudinal bars at control joints. Top longitudinal bars to be continuous through control joint.

The back face of all retaining walls over two feet high shall be dampproofed above the top of the footing.

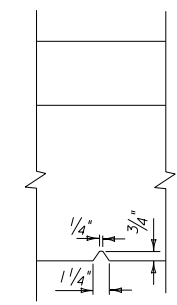
Weep holes shall be placed at 10'-0" centers in all retaining walls.

All exposed faces of retaining walls shall be built with forms to simulate a brick face.

ALL REINFORCING STEEL SHALL BE EPOXY COATED.



DETAIL OF
CONTROL JOINT
NO SCALE



DETAIL OF
DUMMY JOINT
NO SCALE

REVISIONS		
NO.	BY	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

REINFORCED CONCRETE
RETAINING WALL
TYPE 'A' AND TYPE 'B'

CITY OF LINCOLN, NEBRASKA
OFFICE OF THE CITY ENGINEER

Date: 2-03 / CAW Scale: None

No. Sheets 1 Sheet No.

PLAN NO. L.S.P. 610